



UCSB HYPERLOOP

ASFB Funding Proposal

# INTRO



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# TEAM

- **Structures & Integration:** Trevor Fritz, Kyle Collett, Lucas Dewey, Viraj Khatri, Nathan Ransom
  - Faculty Advisor: Professor [Tyler Susko](#), PhD, Mechanical Engineering, MIT
  - Graduate Student Advisor: Petros Serbana
- **Aerodynamics & Levitation:** Sarah Conley, Dasun Hemachandra, Annie Kim, Kristine Lai, Daniel Vong
  - Faculty Advisor: Dr [Greg Dahlen](#), PhD, Mechanical Engineering, UCSB
  - Graduate Student Advisor: Brian Gibson
- **Electrical Engineering:** Chris Johnson, Mary Alice Callaghan, Juan Castillo, Elena Georgieva, Terrence Tran
  - Faculty Advisor: Professor [Ilan Ben-Yaacov](#), PhD, Electrical and Computer Engineering (ECE), UCSB
  - Power Electronics Advisor: Dr Jim Honea, PhD, ECE, UCSB
  - Graduate Student Advisor: Stephanie Johnson
- **Computer Engineering:** Celeste Bean, Connor Buckland, Ben Hartl, Cameron McCarthy, Connor Mulcahey
  - Faculty Advisor: Dr [John Johnson](#), PhD, ECE, UCSB
  - Graduate Student Advisor: Will Miller
- **Finance & Marketing:** Christian Arita, Ivan Gouvea

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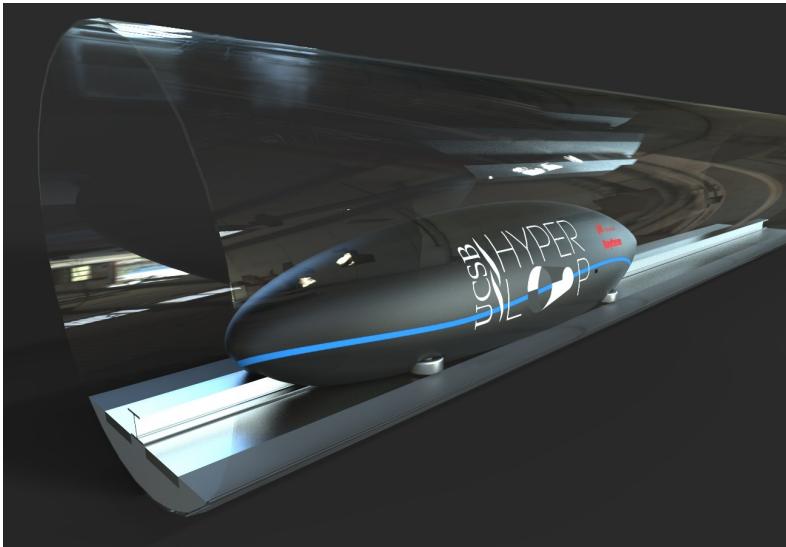
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# THE HYPERLOOP



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# THE COMPETITION

- Design & Build 1/4<sup>th</sup> scale pod for a proof of concept
- Over 1000 teams entered last summer
- 77 attended Design Weekend at Texas A&M University in January
- We were one of the 30 teams selected to be selected to race our pod on the track in August at SpaceX HQ



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# SPONSORSHIPS

**Raytheon**

 **Ingersoll Rand**

**NORTHROP  
GRUMMAN**

Jonathan Siegel

 **TENON**  
INTERSYSTEMS

UC SANTA BARBARA

**economics**

 **CalChamber**  
CALIFORNIA CHAMBER OF COMMERCE

- Have raised \$40,000 in sponsorships
- Need approximately \$10,000 more to complete purchasing of materials and test equipment
- Started a Tilt campaign and are seeking other funding sources

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# ASFB FUNDING

PRIORITY	EXPENSE	COST
1	ME A&L Stability System	-\$1,755.59
2	ME A&L Shell	-\$935.00
3	ME S&I Wheels	-\$432.58
4	ME S&I Magnetic Brakes	-\$899.93
5	EE Team	-\$5,880.50
6	ME S&I Friction Brakes	-\$746.50
7	ME S&I Shell Frame	-\$896.29
8	ME A&L Heat Dissipation	-\$400.00
9	ME A&L Test Track	-\$3,921.00
<b>ACCOUNTS</b>		
	Account DPB214	\$2,500.00
	Account DPB215	-\$4,182.00
	Account DPB216	\$2,500.00
	Account DPB218	\$3,056.00
	Tilt	\$1,611.00
<b>TOTAL</b>		<b>-\$10,382.39</b>

- Link to our budget is at [ucsbhyperloop.com/asfb](http://ucsbhyperloop.com/asfb)
- Detailed bill of materials is linked in the other sheets at the bottom
- Seeking a contribution of \$3K from A.S.**
- Precise expenditures that you would fund depends on timing
  - Parts & Spares
  - Testing equipment
    - Local Test track
  - Transportation
- We believe this competition to a great way to bolster UCSB's reputation on a world stage

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